June 2, 1982

Central Intelligence Agency
Procurement Division
Washington, D. C. 20505

Attention: [redacted]
Contracting Officer

Reference: Contract No. [redacted]

Subject: SAS Modifications and IFS Installation

Dear Mr. Henry:

As a result of our meeting [redacted] on May 26, 1982, [redacted] is pleased to present our proposal for modifying the ADSTAR Stand-Alone System (SAS). This modification will allow the Document Capture Subsystem (DCS) and the Document Retrieval Subsystem (DRS) to be placed in separate C-150 processors. Additional hardware and software will be required to affect these modifications for SAS. The enclosures hereto detail the hardware components, software components, tasks, schedules, and costs for accomplishing these modifications to SAS.

Also enclosed is a Hardware Maintenance Schedule which sets forth [redacted] proposed rates for providing hardware maintenance services on the additional SAS equipments. As configured in Amendment #11 to the referenced contract, our proposal includes both high and low tracks for maintenance reimbursement. The stipulation contained in said amendment that "a Government caused delay shall not degrade [redacted] potential for high track reimbursement" will also apply to maintenance reimbursement on these additional equipments. This is especially important in that delivery and installation schedules included herein are based on the power and necessary facilities being available on-site no later than fifteen (15) days after contract modification/notification.

Regarding the ADSTAR Interface System (IFS), it is our understanding that no additional software will be required for IFS because the Agency has decided to install a copy of the SAS software for IFS. Revised schedules for installing IFS have also been provided in this proposal.

[redacted]

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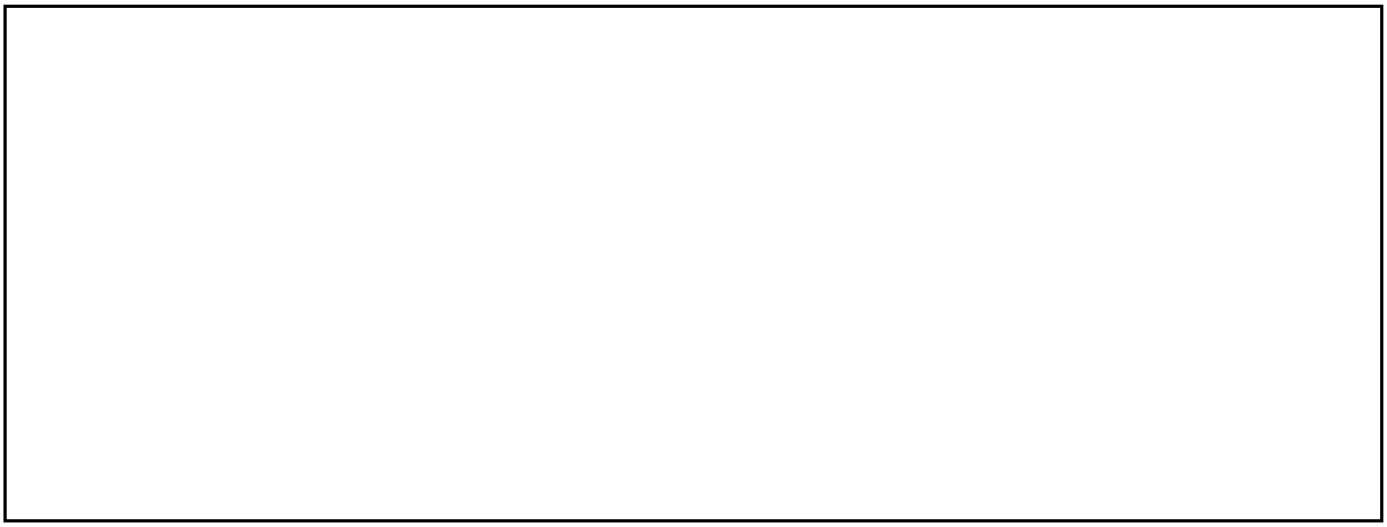

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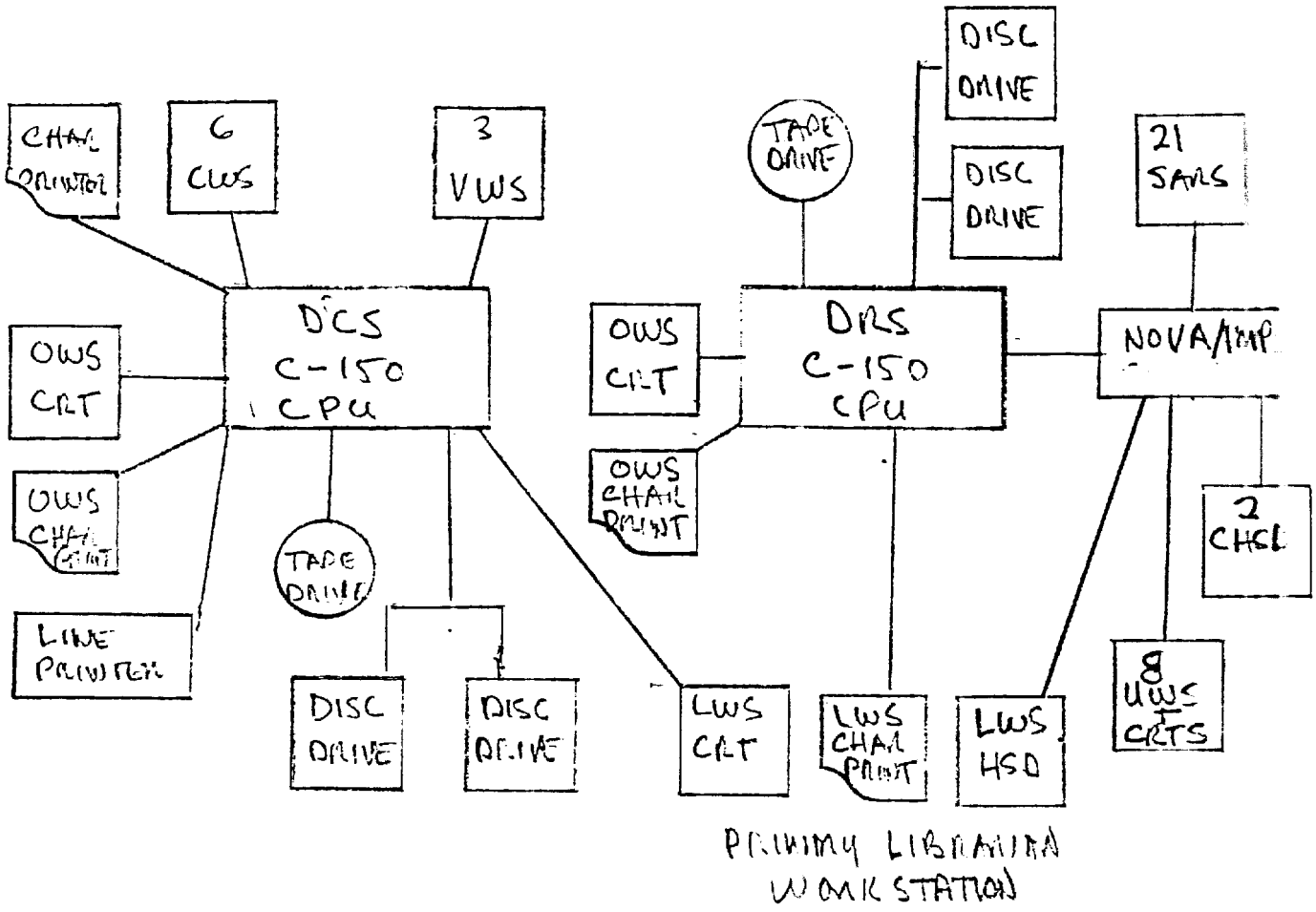
SAS ADDITIONAL HARDWARE PRICING

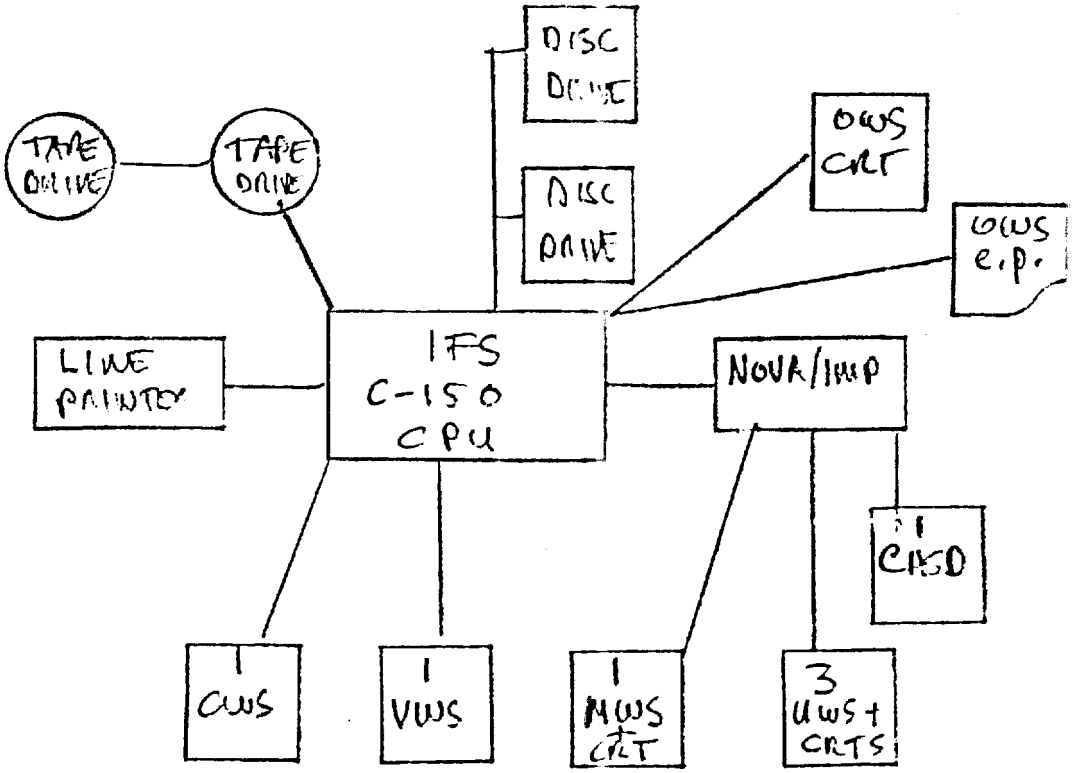
	Qty	Item	Model #	Unit Cost	Extended Cost
#1	1	C150 Processor w/ 1 Memory Protection Unit 1 Floating Point Unit 1 Comm Basic I/O	8622KA 8618 Mod II 4014/4034	$22,800	$ 22,800
	3	256 KB Memory	8656	6,480	19,440
	1	Basic I/O	4007	162	162
	1	Real Time Clock	4008	324	324
	1	TTY Interface	4010	121	121
	1	EIA Interface	4023	41	41
	1	Comm Chassis	4251	1,458	1,458
	2	ALM 16	4257	1,620	3,240
	1	Digital I/O Board	4065	170	170
	1	PIT	4068	510	510
	1	2-Bay Cabinet		1,910	1,910
	1	Disk Controller	6061	25,000	25,000
	1	MCA	4206	1,701	1,701
	1	MCA Cable		300	300
	1	12 Slot I/O Expansion Chassis	8537	1,700	1,700
	5	4-Line EIA Interface	4261	123	615
#2	2	Disk Storage Units	6061A	25,019	50,038
#3	1	Tape Controller	4196	4,050	4,050
#4	1	Tape Subsystem	4196A	8,500	8,500
#5	1	DCU 50	4250	2,700	2,700
#6	1	CRT Terminal	6053	2,650	2,650
#7	1	Character Printer	6042	2,117	2,117
				TOTAL	$149,547

S·S Revised Hardware Layout



PRIMARY LIBRARIAN WORK STATION

IFS Hardware Layout



SAS REQUIRED SOFTWARE MODIFICATIONS

The following additions and/or modifications are required for the SAS software.

2.1 SAR LOAD/SAR UNLOAD

Currently, SAR LOAD updates the document, reel, and SAR files when a series of documents are added to the system data base. In addition, the system also directs the system operator to load one or two film cartridges into specified SARs. SAR LOAD will be assigned to the DCS portion of SAS and modified to place the SAR LOAD instructions to the operator in a file. A command will be provided for the DRS to allow the operator to cause the SAR LOAD file to be printed on the line printer. Using the SAR LOAD file report and the SAR POSITION command, the operator will be able to load cartridges on DRS. The SAR POSITION command will be assigned to DRS and will also be modified so that as the operator places a cartridge in a SAR, the system will record this action at the operator's console. SAR UNLOAD will be assigned to the DCS portion of the SAS and will be modified like SAR LOAD. It will place SAR UNLOAD instructions in the SAR LOAD file while it is updating the document, reel, and SAR files in the ADSTAR data base.

2.2 LIBRARIAN SERVICES SUBSYSTEM

The functions provided by the Librarian Services Subsystem must be split between the DCS and DRS portions of SAS. In addition, certain functions must be modified. These functions include deferred requests for fiche output, batch queries, and partial document searches. The modifications for these functions will allow them to place entries in a Batch Input Queue via a new Batch Input Process. This Batch Input Queue will be moved to the DRS for processing when the daily update of the ADSTAR data base takes place. The Librarian Services Subsystem for DCS will provide functions for Deferred Fiche Retrieval, Partial Document Search, Batch Document Searches,

and Data Base Maintenance. The Librarian Services Subsystem for DRS will provide functions for intervention processing, user retrieval request processing except for fiche, messages to users, system information, batch queue processing, and data base status reporting.

2.3 LIBRARIAN WORK STATION SCREENS

The Librarian Work Station screens will have to be modified to reflect the functions which can be performed at the DCS and DRS Librarian Work Stations. First, the processing option screens for each work station will have to be modified and then the linkages to the underlying screens will have to be changed. The software for both Librarian Work Stations will, however, remain common and the specific software modules activated for a given work station will be determined by up macros to be defined for each portion of the system.

2.4 USER WORK STATION MODIFICATIONS

The User Work Station processes will be modified so that they may be used as either User or Librarian Work Stations. In addition, a "super user" category will be established which will allow librarians to retrieve documents on behalf of users without current system access or security. Only librarians will be able to exercise this function.

2.5 DCS and DRS CONFIGURATION

Three sets of system initialization or "up" macros will be developed. The first, DCS UP, will cause the system to be configured as a Data Capture System capable of supporting six Camera Work Stations, three Verification Work Stations, a Librarian Work Station, and an Operator Work Station. The second, DRS UP, will cause the system to be configured as a Document Retrieval System capable of supporting eight User or Librarian Work Stations, two Central HSDs, a primary Librarian Work Station, and an Operator Work Station. The third, ADSTAR UP, will cause the system to be configured for IFS: one Camera Work Station, one Verification Work Station, three User Work Stations, one Central HSD, and one Management Work Station (equivalent to a Librarian Work Station). All systems will be configured and initialized using the same standard set of software modules. This will allow software maintenance to be performed for all three systems simultaneously.

2.6 ADSTAR MONITOR

The ADSTAR Monitor will be modified to integrate the different "up macros" and to ensure that only the commands defined for the operators of each type of system (DRS, DCS, and IFS) can be invoked from the operator's console. In addition, certain administrative commands must be added which enable updating of the DRS data base with the DCS data base must be added.

SAS TASKS AND SCHEDULE

Ten tasks are required to complete installation, modification, and completion of testing for SAS. These tasks are detailed below.

SAS TASKS

TASK 1- Layout New Installation:

Prepare layout for placement of new equipment and cabling for communications and power.

TASK 2- Move and Install Hardware

Remove C-150 processer from RAGEN's Rosslyn office and install hardware on Agency SAS site.

Task 3- SAR LOAD/UNLOAD SOFTWARE:

Modify SAR LOAD/UNLOAD SOFTWARE and develop two additional commands for SAR position and SAR Load reports.

TASK 4- LIBRARIAN SERVICES SOFTWARE:

Modify Librarian Services Sub systems modules to operate in split mode (DCS/DRS).

TASK 5- LIBRARIAN SCREEN SOFTWARE:

Modify Librarian Processing option screens amd librarian function screens need for DLS and DRS operations.

TASK 6- USER WORKSTATION SOFTWARE:

Modify User Workstation Software to allow for UWS/LWS selection and "Superuser" modes.

TASK 7- DCS/DRS CONFIGURATION SOFTWARE:

Develop "up" macros for DCS/DRS/IFS configurations.

TASK 8- ADSTAR MONITOR MODIFICATION:

Modify ADSTAR Monitor for each type of ADSTAR system.

TASK 9- LEGIBILITY and REGISTRATION TEST:

Perform ADSTAR Legibility and Registration Test.

TASK 10- SAS PERFORMANCE TEST:

Perform 30 day reliability test.

Please make note that if necessary power and facility requirements have not been installed within 3 weeks after start of the SAS modification project, [redacted] can not be held liable for schedule slips and request reimbursement from the government for costs due any such delays.

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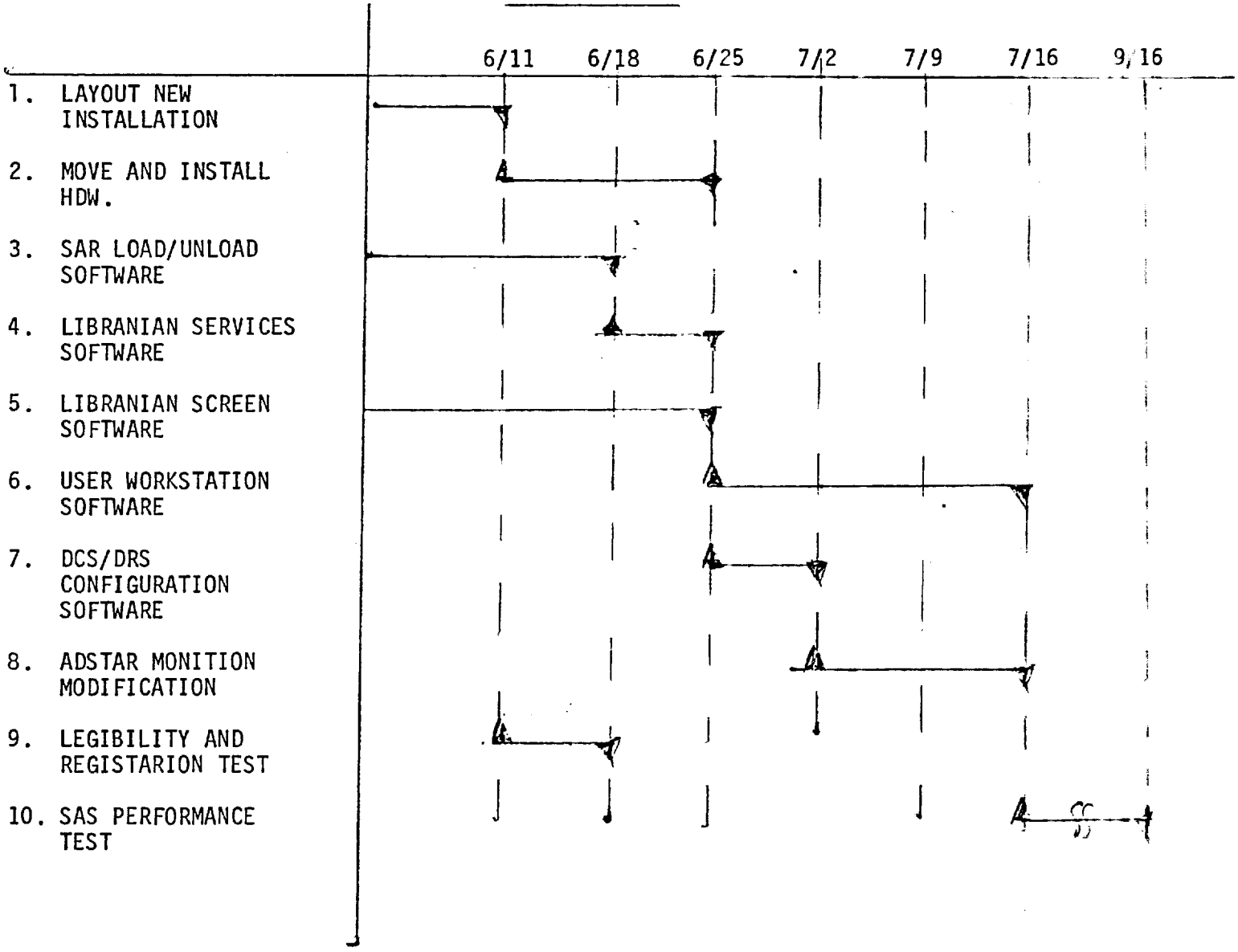
SAS SCHEDULE



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IFS TASKS AND SCHEDULE

IFS TASKS

A total of five tasks are required for the installation, training and testing of IFS.

TASK 1- LAYOUT IFS INSTALLATION:

Develop space layout, power, air conditioning and communications plan for IFS installation.

Task 2- Install

Install and test hardware and software componets of IFS

TASK 3- TRAIN IFS PERSONNEL:

Provide training for IFS;CWS, VWS, UWS, MWS and OWS users.

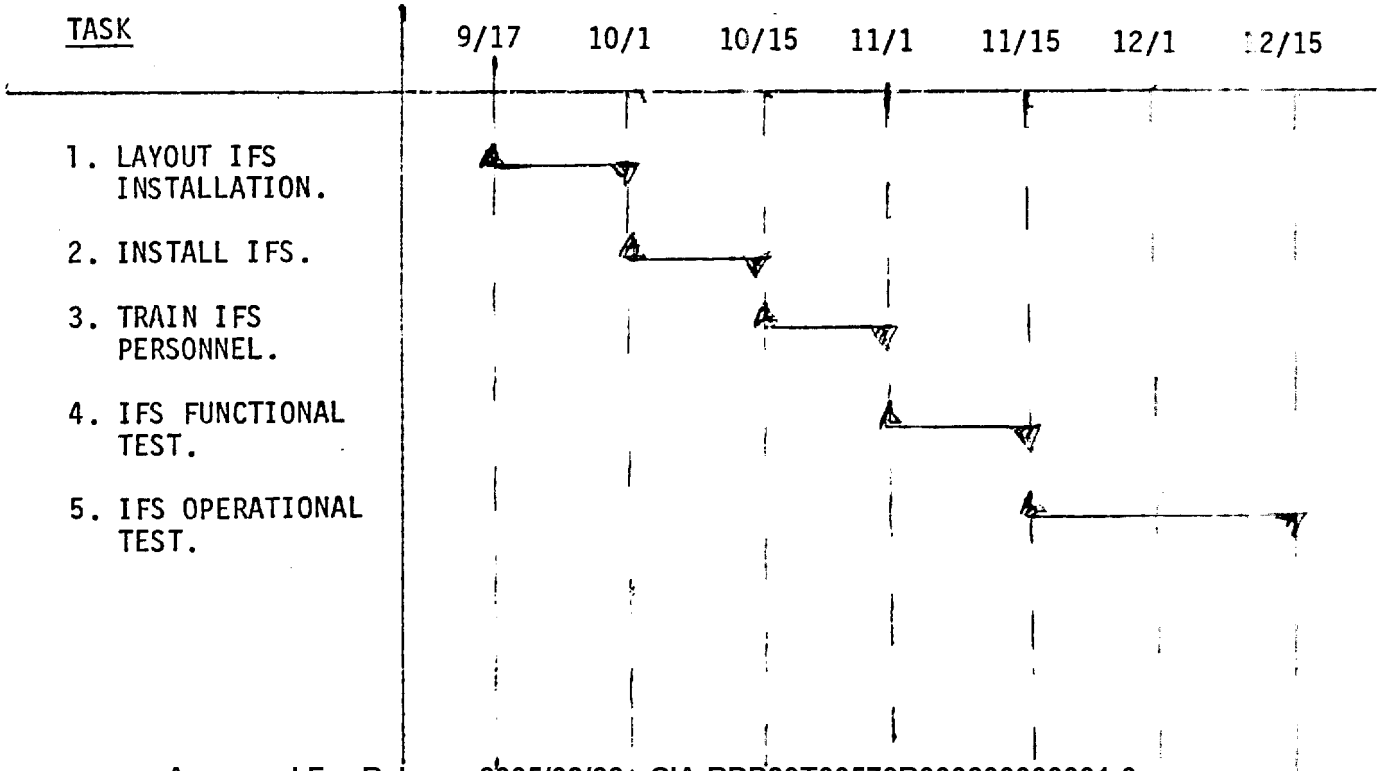
TASK 4- IFS FUNCTIONAL TEST:

Perform IFS functional test which include legibility and 1hr. performance tests.

TASK 5- IFS OPERATIONAL TEST:

Perform 30 day reliability tests for IFS.

IFS SCHEDULE:



COSTING FOR
SAS MODIFICATIONS

1.	Material		
	Hardware		$ 149,547
	Software Sublicense		5,555
			$ 155,102
2.	Material Handling @ 9%		13,959
3.	Direct Labor (Software)		
	240 Hours @ $14.37	$ 3,450	
	240 Hours @ 17.38	4,170	
			$ 7,620
4.	Overhead on Direct Labor @ 125%		$ 9,525
5.	Outside Services (Installation)		$ 4,316
6.	G&A on Items 3, 4, and 5 ($21,461) @ 15%		$ 3,219
		Subtotal	$ 193,741
7.	Fee @ 15% (on $193,741)		$ 29,061
			$ 222,802
STAT	[ ] waiver of fee on items 1 and 2		- 25,359
		TOTAL	$ 197,443

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MONTHLY ON-SITE MAINTENANCE CHARGES
FOR FISCAL YEARS 1982 - 1987
0700-1630 HRS, MONDAY - FRIDAY

FOR ADDITIONAL SAS HARDWARE AS DESCRIBED IN ATTACHMENT #1

	FY-82	FY-83	FY-84	FY-85	FY-86	FY-87
HIGH TRACK	$1,228	$1,449	$1,462	$1,590	$1,734	$1,890
LOW TRACK	1,164	1,268	1,385	1,507	1,642	1,790

Note: Rates are escalated at 9% per year.

RATES ARE BASED AS FOLLOWS:

Item #*	Item	Qty	Unit Monthly Maintenance	Total Monthly Maintenance
1,3,4	C-150 Processor	1	$ 504	$ 504
2	Disk Storage Units	2	286	572
5	DCU 50	1	39	39
6	6053 CRT Terminal	1	34	34
7	Character Printer	1	37	37
				$ 1,186**

*Item numbers refer to those equipments listed on Attachment #1.

**Of these 1981 costs (escalated at 9% for 1982), 90% is used as the LOW TRACK rate, and 95% as the HIGH TRACK rate (based on the ratio of costs allowed for current maintenance services, i.e., Amendment #11 to the ADSTAR contract).